

## CLAIMS

1. A air distribution module for a vehicle heating, ventilation and air  
5 conditioning system wherein said module receives an airflow of air  
comprising:

a housing;

an heat exchanger means;

a chamber within the housing for reception of the air flow;

10 wherein the majority of air of the airflow is prevented from bypassing,  
prematurely being released or escaping prior to passing by or over the heat  
exchanger means by a cap or liner positioned around the heat exchanger  
core.

15 2. An air distribution module according to claim 1 wherein said heat  
exchanger means comprises an evaporator means and heater means.

3. An air distribution module according to claim 1 wherein said heat  
exchanger means is a evaporator core.

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4. An air distribution module for a vehicle heating, ventilation and air  
conditioning system wherein said module receives an airflow of air  
comprising:

a housing;

25 an evaporator core;

a cap or liner;

a chamber within the housing for reception of the air flow.

5. An air distribution module according to claim 4 wherein the cap or  
30 liner is a plastic or plastic like material.

6. An air distribution module according to claim 5 wherein the plastic  
material is elastic and is molded in a single mold inside the housing.

7. An air distribution module according to claim 4 wherein the air of the airflow is mixed in a single chamber prior to distribution to the front and rear passenger and defrost areas of a vehicle.

5           8. An air distribution module according to claim 4 wherein the air of the majority of air in the air flow passes by the evaporator core prior to distribution entry into the chamber for eventual distribution to the front and rear passenger and defrost areas of a vehicle.

10           9. An air distribution module according to claim 4 further comprising crash ribs between the housing and liner or cap.

10. An air distribution module according to claim 1, wherein the cap or liner further comprises at least one drain slot.

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11. An air distribution module according to claim 6, wherein the cap or liner further comprises at least one drain slot.